

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	15	((TOSHINORI) near2 (TAKATSUKA)).INV.	US-PGPUB; USPAT	OR	ON	2011/07/15 10:55
L2	6141	345/157	US-PGPUB; USPAT	OR	ON	2011/07/15 10:56
L3	2568	345/157.ccls.	US-PGPUB; USPAT	OR	ON	2011/07/15 10:56
L4	4379	345/161-167.ccls.	US-PGPUB; USPAT	OR	ON	2011/07/15 10:57
L23	1	10/542643	US-PGPUB; USPAT	OR	ON	2011/07/15 11:18
L24	0	ring same magnet same plane same (radius) same sensor.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/15 11:27
L25	0	(ring same magnet same plane same (radius) same sensor).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/15 11:28
L26	0	(ring same magnet same plane same (radius) and sensor).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/15 11:28
L27	4	(ring same magnet same plane and (radius) and sensor).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/07/15 11:28
L28	26	("2378668"   "2413805"   "2454359"   "3334253"   "3558944"   "3561834"   "4080553"   "4109170"   "4127799"   "4142119"   "4211963"   "4455516"   "Re27446").PN. OR ("4556828").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:28

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L29	42	("3859868"   "4028962"   "4052913"   "4123949"   "4186245"   "4186623"   "4198878"   "4207778"   "4266442"   "4285251"   "4341001"   "4370899"   "4408500"   "4481840"   "4556828"   "4660435"   "4817453"   "4821599"   "4824051"   "4860611"   "4991462"   "5116885"   "5126317"   "5209461"   "5245270"   "5248864"   "5285699"   "5313130"   "5514923").PN. OR ("5760506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:28
L30	17	("3742595"   "3836954"   "4781986"   "4855630"   "4879485"   "4930201"   "5122704"   "5128575"   "5485045"   "5661351"   "5723933"   "5760506"   "5962938"   "6029338"   "6229243"   "6300693").PN. OR ("6995489").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:28
L31	17	("20050093393"   "20060131978"   "4006375"   "4629920"   "4633149"   "4996457"   "5099182"   "5334899"   "5396140"   "5793137"   "5982070"   "6011337"   "6172589"   "6674214"   "6751842"   "6995489"   "7098569").PN. OR ("7714479").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:29
L32	23	("5172751"   "5725684"   "5976274").PN. OR ("6172589").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:31
L33	58	("20030164209"   "20040154701"   "20050034792"   "2535068"   "2853040"   "3986867"   "4053330"   "4061815"   "4067732"   "4268564"   "4353305"   "4365994"   "4374665"   "4409043"   "4562951"   "4584034"   "4650712"   "4676168"   "4704169"   "4964927"   "5228349"   "5372657"   "5431754"   "5499156"   "5522948"   "5567251"   "5604403"   "5626691"   "5728968"   "5732771"   "5738733"   "5797443"   "5820963"   "5866254"   "5868077"   "5896642"   "5961745"   "5976274"   "6010580"   "6057766"   "6172589"   "6280536"   "6284061"   "6357332"   "6446558"   "6505571"   "6515382"   "6592689"   "6652679"   "6669793"   "6689234"   "6692590"   "6709536"   "6763593"   "7052561"   "7067020").PN. OR ("7517415").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:31
L34	16	("4725512"   "4820141"   "5643531"   "6258185"   "6261386"   "6270591").PN. OR ("6689234").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:31
L35	7038	pointing near3 device.dlm.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 11:32

## EAST Search History (Prior Art)

S1	12	((TOSHINORI) near2 (TAKATSUKA)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/07 18:34
S2	1950	345/157.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/07 18:34
S3	17	((("4029899") or ("4795858") or ("5504502")) or ("20010006369") or ("20010055001") or ("20020054012") or ("20040080491") or ("6765748"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 18:36
S4	0	(10/542643).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 18:38
S5	1	10/542643	US-PGPUB; USPAT	OR	ON	2009/01/07 18:39
S6	4	"6762748"	US-PGPUB; USPAT	OR	ON	2009/01/07 18:43
S7	0	58-066381	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/07 18:49
S8	0	56-165228	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/07 18:49
S9	3	2002-287891	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/07 18:51
S10	8	((("5504502") or ("5973668") or ("6373265")) or ("4462594"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 18:53

## EAST Search History (Prior Art)

S11	4	((("6525257") or ("5504502"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 18:55
S12	238	ring same magnet\$4 and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/07 18:58
S13	24	ring same magnet\$4 and "345"/157.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/07 19:00
S14	17036	ring same magnet\$4 same two	US-PGPUB; USPAT	OR	ON	2009/01/07 19:07
S15	740	ring same magnet\$4 same two same north same south	US-PGPUB; USPAT	OR	ON	2009/01/07 19:07
S16	672	ring same magnet\$4 same two same north same south same pole	US-PGPUB; USPAT	OR	ON	2009/01/07 19:07
S17	8	ring same magnet\$4 same unipolarly	US-PGPUB; USPAT	OR	ON	2009/01/07 19:10
S18	80	ring same magnet\$4 same unipolar\$5	US-PGPUB; USPAT	OR	ON	2009/01/07 19:11
S19	365	ring same magnet\$4 same multi\$1polar	US-PGPUB; USPAT	OR	ON	2009/01/07 19:15
S20	1	"6861934"	US-PGPUB; USPAT	OR	ON	2009/01/07 19:20
S21	2	("4222021"   "5506558").PN. OR ("6861934").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/07 19:20
S22	13	("3827021"   "4222021"   "4543551"   "4568901"   "4859976"   "5180557"   "5210373"   "5235243"   "5294826").PN. OR ("5506558").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/07 19:21
S23	14	"4222021"	US-PGPUB; USPAT	OR	ON	2009/01/07 19:39
S24	16	silicone same resin and 345/156-157.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/08 10:28
S25	951	silicone near1 resin and mouse	US-PGPUB; USPAT	OR	ON	2009/01/08 10:31
S26	0	silicone near1 resin and 345/157.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/08 10:32
S27	11	silicone near1 resin and 345/156.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/08 10:32
S28	4399	345/156.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/08 12:58
S29	3457	345/161-167.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/08 12:59
S30	239	178/18.07.ccls.	US-PGPUB; USPAT	OR	ON	2009/01/08 12:59

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S31	4	"6762748"	US-PGPUB; USPAT	OR	ON	2009/01/08 15:57
S32	21	("20030146899"   "4852630"   "4853630"   "4991836"   "5434373"   "5504502"   "5619195"   "5640178"   "5714980"   "5850142"   "5969520"   "5969529"   "6144370"   "6266046"   "6288854"   "6369806"   "6501458"   "6606085"   "6762748"   "6836267"   "6937226").PN. OR ("7151526").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/08 16:02
S33	15	("3331972"   "5432530"   "5526022"   "5619195"   "5714980"   "5969520"   "6001014"   "6232959"   "6239785"   "6266046").PN. OR ("6606085").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/08 16:07
S34	578	magnet same sensor same close same flux	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/08 16:12
S35	10	magnet same sensor same close same flux and "345"/\$5.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/08 16:12
S36	24	magnet same sensor same close same hall and "345"/\$5.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/08 16:14
S37	1	10/542643	US-PGPUB; USPAT	OR	ON	2009/01/08 16:59
S38	1	10/542643	US-PGPUB; USPAT	OR	ON	2009/01/08 17:08
S39	4	"6762748"	US-PGPUB; USPAT	OR	ON	2009/04/24 10:08
S40	5	"5506558"	US-PGPUB; USPAT	OR	ON	2009/04/24 10:08
S41	1	10/542643	US-PGPUB; USPAT	OR	ON	2009/04/24 10:10
S42	43	"5504502"	US-PGPUB; USPAT	OR	ON	2009/04/24 12:25
S43	52	pervan.xa.	US-PGPUB; USPAT	OR	ON	2009/05/06 16:18
S44	21	"5627560"	US-PGPUB; USPAT	OR	ON	2009/05/06 17:52
S45	1	"6812910"	US-PGPUB; USPAT	OR	ON	2009/05/06 17:52
S46	14	((TOSHINORI) near2 (TAKATSUKA)).INV.	US-PGPUB; USPAT	OR	ON	2009/06/16 11:12
S47	5	("20020061735" "20030178291" "20040119 687" "7126072" "7262374").PN.	US-PGPUB; USPAT	OR	ON	2009/06/16 11:15
S48	6	("5179460" "5504502" "5565632" "5973668 " "6373265" "6670946").PN.	US-PGPUB; USPAT	OR	ON	2009/06/16 11:16

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S49	9	("5504502"   "5508719"   "5714980"   "6043806"   "6266046").PN. OR ("6670946").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 11:18
S50	3	"7139008"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 11:22
S51	8	"6856328"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 11:22
S52	0	"11110273"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 12:47
S53	0	"11/110273"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 12:47
S54	1	10/542643	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:05
S55	13	("3827021"   "4222021"   "4543551"   "4568901"   "4859976"   "5180557"   "5210373"   "5235243"   "5294826").PN. OR ("5506558").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:10
S56	1	10/542643	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:12
S57	9399	(magnet) and (opposite interlac\$4) same north same south	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:16
S58	100	(magnet) and (opposite interlac\$4) same north same south and "345"/\$5.cds.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:16
S59	13	("20010055002" "20020093328" "20040080491" "20050077165" "5432530" "5714980" "6266046" "6528740" "6583784" "6667733" "6831629" "6952197" "7034804").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:17
S60	4	("20040125082" "5327162" "6816049" "6831238").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:21
S61	3	10/625727	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:28
S62	10	("20020105495"   "20040125082"   "20040178996"   "5327162"   "5486965"   "5621591"   "6816049"   "6831238"   "6839050"   "6937124").PN. OR ("7031592").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:28
S63	5	"5506558"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:39

## EAST Search History (Prior Art)

S64	15	"4222021"	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/16 15:40
S65	21	"5831554"	US-PGPUB; USPAT	OR	ON	2009/06/17 09:17
S66	1274	(magnet magnet\$4) same (quadrupole) same (converging or direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/17 09:59
S67	89	(magnet magnet\$4) same (quadrupole) same (converging or direct\$5) same ring	US-PGPUB; USPAT	OR	ON	2009/06/17 09:59
S68	11	("3305744"   "3354336"   "3505560"   "4625144"   "4670726"   "4766343").PN. OR ("5157302").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 10:45
S69	659	(magnet magnet\$4) same (converging or direct\$5) same ring same alternate	US-PGPUB; USPAT	OR	ON	2009/06/17 10:55
S70	24	("2041875"   "2328743"   "2468295"   "2784331"   "2806158"   "3007098"   "3164735"   "4433260").PN. OR ("5187401").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 11:01
S71	22	("5431050"   "5528937").PN. OR ("6373265").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 12:33
S72	6	("5179460"   "5504502"   "5565632"   "5973668"   "6373265"   "6670946").PN. OR ("7388574").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 12:33

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S73	76	("20020006829"   "20030070414"   "20040087375"   "20040138918"   "20040192438"   "20040219982"   "20050009600"   "20050012818"   "20050043072"   "20050116020"   "20050181870"   "20050288085"   "20060063586"   "20060094498"   "20060095790"   "20060258442"   "20060287078"   "20070105616"   "4363029"   "4733222"   "4758830"   "4814760"   "4910504"   "5028875"   "5043710"   "5063306"   "5112060"   "5166502"   "5189417"   "5239152"   "5305017"   "5349303"   "5389219"   "5442347"   "5461319"   "5495077"   "5512836"   "5565658"   "5572205"   "5594222"   "5650597"   "5651548"   "5735742"   "5760715"   "5761647"   "5790106"   "5861875"   "5867111"   "5880718"   "5901211"   "5973318"   "5978770"   "5987421"   "6021949"   "6104815"   "6137427"   "6222528"   "6288707"   "6297811"   "6310611"   "6320282"   "6348862"   "6373263"   "6373265"   "6388453"   "6407556"   "6490920"   "6652381"   "6659875"   "6843725"   "6846238"   "6923724"   "6935958"   "6942574"   "7217190").PN. OR ("7330108").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 12:34
S74	53	("3482241"   "4186392"   "4233522"   "4281323"   "4293734"   "4455452"   "4476463"   "4550221"   "4707845"   "4740781"   "4743895"   "4806709"   "4831566"   "4853498"   "4916699"   "4922061"   "5041820"   "5083118"   "5153572"   "5231381"   "5237879"   "5270711"   "5305017"   "5418551"   "5488204"   "5491706").PN. OR ("5650597").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 12:34
S75	7	("5107262"   "5210367"   "5578782"   "5783765"   "5922983"   "6111174").PN. OR ("6525257").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 12:34
S76	17	("4450749"   "4593592"   "4913026"   "4970928"   "5016513").PN. OR ("5210367").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/17 12:34
S77	14	((TOSHINORI) near2 (TAKATSUKA)).INV.	US-PGPUB; USPAT	OR	ON	2010/03/08 10:06
S78	1	10/542563	US-PGPUB; USPAT	OR	ON	2010/03/08 10:07
S79	1	("7633488").PN.	US-PGPUB; USPAT	OR	ON	2010/03/08 10:08



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S80	45	( "20020097224"   "20050068134"   "20050088411"   "20050093822"   "20050099391"   "3932722"   "4366463"   "4492830"   "4533899"   "4748441"   "4825157"   "4885490"   "5349263"   "5380222"   "5432530"   "5504502"   "5539978"   "5714980"   "5831596"   "5881866"   "5959557"   "6109130"   "6144368"   "6201196"   "6217183"   "6266046"   "6285356"   "6320284"   "6320569"   "6326948"   "6356256"   "6373265"   "6515650"   "6664666"   "6707446"   "6738043"   "6760006"   "6818845"   "6831629"   "6859198"   "6906700"   "6909205"   "6952197"   "6956559"   "7047826" ).PN. OR ("7633488").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 10:09
S81	12	( "4853630"   "5504502"   "5619195"   "5850142"   "5969520"   "6501458" ).PN. OR ("6738043").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 10:11
S82	1	10/542643	US-PGPUB; USPAT	OR	ON	2010/03/08 10:15
S83	45	( "20020097224"   "20050068134"   "20050088411"   "20050093822"   "20050099391"   "3932722"   "4366463"   "4492830"   "4533899"   "4748441"   "4825157"   "4885490"   "5349263"   "5380222"   "5432530"   "5504502"   "5539978"   "5714980"   "5831596"   "5881866"   "5959557"   "6109130"   "6144368"   "6201196"   "6217183"   "6266046"   "6285356"   "6320284"   "6320569"   "6326948"   "6356256"   "6373265"   "6515650"   "6664666"   "6707446"   "6738043"   "6760006"   "6818845"   "6831629"   "6859198"   "6906700"   "6909205"   "6952197"   "6956559"   "7047826" ).PN. OR ("7633488").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 10:17
S84	534	magnet\$4 same inner same outer same circle same alternat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 10:20
S85	2	"5226855"	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 10:22
S86	60	("2722617").URPN.	USPAT	OR	ON	2010/03/08 10:35
S87	19	magnet\$4 same circ\$ same alternat\$4 and "345"/\$5.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:20
S88	5072	magnet\$4 same circ\$ same alternat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:29

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S89	58	magnet\$4 same cird\$ same alternat\$4 same ple	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:39
S90	1489	magnet\$4 same cird\$ same alternat\$4 same pole	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:39
S91	1	10/542643	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:40
S92	25	("2041875"   "2328743"   "2468295"   "2784331"   "2806158"   "3007098"   "3164735"   "4433260").PN. OR ("5187401").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:45
S93	67	magnet\$4 same cird\$ same alternat\$4 same pole same sensor	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 11:55
S94	50	("3728565"   "4011476"   "4166977"   "4359685"   "4370614"   "4394594"   "4481469"   "4490764"   "4506217"   "4506338"   "4658162"   "5148070"   "5148104"   "5161361"   "5194771"   "5410201"   "Re31278").PN. OR ("5864192").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 12:07
S95	64	("3331972"   "4680577"   "4712101"   "4724715"   "4823062"   "4823634"   "4837489"   "4853630"   "4868549"   "4896554"   "4922444"   "4931781"   "5012230"   "5021771"   "5065146"   "5095302"   "5160918").PN. OR ("5504502").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 12:13
S96	297	magnet\$4 same cird\$ same alternat\$4 same south same north	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 12:24
S97	1	("2896043").URPN.	USPAT	OR	ON	2010/03/08 12:28
S98	9	("2611059"   "2896043"   "3384772").PN. OR ("3953694").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 12:28
S99	14	("4053829"   "4401944"   "4533872"   "5304926"   "5469054"   "5574364"   "5596272"   "5644225"   "5670875"   "5694039"   "5694040"   "5982178"   "6559638"   "6577121").PN. OR ("6784659").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/08 12:39
S10 0	1	10/542643	US-PGPUB; USPAT	OR	ON	2010/03/08 13:23
S10 1	1	10/542643	US-PGPUB; USPAT	OR	ON	2010/03/08 14:17
S10 2	14	((TOSHINORI) near2 (TAKATSUKA)).INV.	US-PGPUB; USPAT	OR	ON	2010/04/05 10:35

## EAST Search History (Prior Art)

S10 3	1403	335/205-207.ccls.	US-PGPUB; USPAT	OR	ON	2010/04/05 10:36
S10 4	162	324/207.11.ccls.	US-PGPUB; USPAT	OR	ON	2010/04/05 10:37
S10 5	409	335/284.ccls.	US-PGPUB; USPAT	OR	ON	2010/04/05 10:37
S10 6	61	("2722617").URPN.	USPAT	OR	ON	2010/04/05 10:43
S10 7	7	("2060260").PN. OR ("3585550").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/05 10:52
S10 8	15	((TOSHINORI) near2 (TAKATSUKA)).INV.	US-PGPUB; USPAT	OR	ON	2011/06/21 12:01
S10 9	2	"20040080491"	US-PGPUB; USPAT	OR	ON	2011/06/21 12:04
S11 0	4	((("20040080491") or ("6864679")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/06/21 12:04
S11 1	43	("5431050"   "5528937").PN. OR ("6373265").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:07

# EAST Search History (Prior Art)

S11 2	300	("20020063688"   "20020191029"   "20030058506"   "20030060218"   "20030062889"   "20030080755"   "20030091220"   "20030222660"   "20040160235"   "20040169638"   "20050024341"   "20050031175"   "20050057266"   "20050083303"   "20060032680"   "20060097991"   "20060273804"   "20070126700"   "3922093"   "4054881"   "4113378"   "4218623"   "4283713"   "4438404"   "4441123"   "4475151"   "4497575"   "4546347"   "4605308"   "4736097"   "4751380"   "4754268"   "4773024"   "4799055"   "4802103"   "4812635"   "4814553"   "4831325"   "4876534"   "4879461"   "4920260"   "4935702"   "4945305"   "4953928"   "4962342"   "4988981"   "5049758"   "5055827"   "5059920"   "5059959"   "5068622"   "5073759"   "5083044"   "5095284"   "5097305"   "5101669"   "5107149"   "5109261"   "5119038"   "5120996"   "5122800"   "5126685"   "5146106"   "5160899"   "5165054"   "5166562"   "5204549"   "5243554"   "5248873"   "5260592"   "5264856"   "5270963"   "5276407"   "5288993"   "5289023"   "5303329"   "5305017"   "5324958"   "5331215"   "5336936"   "5339213"   "5345527"   "5349303"   "5374787"   "5381515"   "5384467"   "5391868"   "5408194"   "5473344"   "5488204"   "5495077"   "5534693"   "5541878"   "5543588"   "5543590"   "5543591"   "5555907"   "5565658"   "5565887"   "5566702"   "5578813"   "5606174"   "5629891"   "5644139"   "5648642"   "5661240"   "5670915"   "5682032"   "5703356"   "5729008"   "5729009"   "5730165"   "5757368"   "5760392"   "5763909"   "5766829"   "5767457"   "5781229"   "5786804").PN. OR ("5796183"   "5812698"   "5825044"   "5841078"   "5844265"   "5854482"   "5854625"   "5861583"   "5861875"   "5864242"   "5864392"   "5880411"   "5889236"   "5907152"   "5914465"   "5914708"   "5917544"   "5920310"   "5923757"   "5926566"   "5942733"   "5943052"   "5963197"   "5969513"   "5994710"   "6014602"   "6023422"   "6028271"   "6028959"   "6031218"   "6037643"   "6057540"   "6097371"   "6097432"   "6148104"   "6151015"   "6172354"   "6184871"   "6185450"   "6188228"   "6188391"   "6222528"   "6225617"   "6233368"   "6239389"   "6249447"   "6262717"   "6270114"   "6280391"   "6281881"   "6281882"   "6288707"	US-PGPUB; OR USPAT; USOCR	ON	2011/06/21 12:07
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# EAST Search History (Prior Art)

S11 3	9	("4719538"   "6989677").PN. OR ("7119552").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:08
S11 4	17	("20050179673"   "20060113178"   "4458293"   "4467150"   "4584444"   "5917165"   "6057521"   "6153843"   "6373265"   "6752551"   "6933732"   "6958614"   "7119552"   "7372281"   "7375536"   "7579569"   "RE32977").PN. OR ("7741858").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:09
S11 5	14	("6158291"   "6159761"   "6373265"   "6530283").PN. OR ("6958614").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:10
S11 6	6	("20050011738"   "20060243579"   "6875938"   "6958614"   "7187264"   "7343807").PN. OR ("7543474").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:11
S11 7	18	("20030043014"   "20050006216"   "2445660"   "4382165"   "4503705"   "4952761"   "5014224"   "5810604"   "5912612"   "5962118"   "6373373"   "6388556"   "6505521"   "6531951"   "6774331").PN. OR ("7187264").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:11
S11 8	17	("3710050"   "4054540"   "4145317"   "4237682"   "4276538"   "4301337"   "4314227"   "4314228"   "4315238").PN. OR ("6388556").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:12
S11 9	26	("20010011276"   "20010017592"   "20020020749"   "4430526"   "5369262"   "5600105"   "5606614"   "5610386"   "5656805"   "5689285"   "5997996"   "6057554"   "6264108"   "6275138"   "6313731"   "6357662"   "6373373"   "6388556"   "6420956"   "6420974"   "6446871"   "6450046"   "6466198"   "6478225"   "6563415"   "6878865").PN. OR ("7306156").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:12
S12 0	11	("4481815"   "4492949"   "5079949"   "5451724"   "5514843"   "5952585"   "6006386").PN. OR ("6450046").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:12
S12 1	40	("3850034"   "4492949"   "4570149"   "4644801"   "4734034"   "4856993").PN. OR ("5079949").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:12
S12 2	22	("20020121145"   "20060273417"   "4428670"   "4429413"   "4577345"   "5079949"   "5400662"   "5429006"   "5745046"   "5844287"   "6578436"   "6661019"   "6672174"   "6680485"   "6694269"   "6862942"   "6889565"   "6993980").PN. OR ("7373843").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:13

## EAST Search History (Prior Art)

S12 3	10	("4225850"   "4577345"   "5862248"   "5907627"   "5940526"   "5978496"   "6108438"   "6370965").PN. OR ("6694269").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:13
S12 4	8	("5325442"   "5446290"   "5635723").PN. OR ("6108438").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:14
S12 5	211	("4353056"   "4394773"   "4429413"   "4547898"   "4577345"   "4582985"   "4852443"   "4986136").PN. OR ("5325442").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 12:14
S12 6	1	10/542643	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 13:15
S12 7	2	"20040080491"	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 13:34
S12 8	54	"5504502"	US-PGPUB; USPAT	OR	ON	2011/06/21 13:51
S12 9	70	("3331972"   "4680577"   "4712101"   "4724715"   "4823062"   "4823634"   "4837489"   "4853630"   "4868549"   "4896554"   "4922444"   "4931781"   "5012230"   "5021771"   "5065146"   "5095302"   "5160918").PN. OR ("5504502").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/21 14:00

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L36	7155	pointing near3 device.clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:32
L37	1211	pointing near3 device and ring.clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:32
L38	2335	pointing near3 device and (ring circular).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:33
L39	1920	pointing near3 device and (ring circular) and (magnet\$4) and sensor.clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:33
L40	6	pointing near3 device and (ring circular) and (magnet\$4) and sensor and (north and south).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:33

## EAST Search History (Interference)

L41	23	pointing near3 device and (ring circular) and (magnet\$4) and sensor and (north and south) and alternat\$4.cm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:34
L42	0	(pointing near3 device and (ring circular) and (magnet\$4) and sensor and (north and south) and alternat\$4).cm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/07/15 11:34
L43	78	("2001000025"   "20010035837"   "20020008655"   "20020038096"   "20020158790"   "20020175996"   "20030020629"   "20040119633"   "20040239305"   "20060254358"   "20070035437"   "20070208460"   "3859576"   "4755944"   "4792804"   "4833698"   "5048029"   "5172110"   "5184624"   "5206640"   "5252912"   "5284142"   "5311878"   "5351697"   "5381333"   "5421345"   "5430381"   "5446461"   "5455590"   "5465730"   "5544662"   "5557283"   "5588429"   "5610517"   "5626146"   "5641965"   "5651955"   "5661406"   "5746214"   "5807251"   "5844415"   "5859609"   "5865754"   "5914610"   "5919142"   "5936412"   "6015389"   "6025726"   "6026173"   "6031482"   "6051981"   "6066954"   "6147497"   "6177903"   "6198271"   "6208288"   "6216540"   "6218846"   "6263096"   "6308097"   "6331778"   "6332035"   "6332087"   "6336045"   "6366232"   "6392692"   "6400307"   "6404377"   "6408043"   "6417797"   "6429805"   "6445810"   "6577700"   "6822443"   "6850862"   "7106072").PN. OR ("7330032").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:35
L44	42	("3221171"   "4082990"   "4112355"   "4134063"   "4451780"   "4562430"   "4686531"   "4814691"   "4899101"   "4972154"   "5130661"   "5281921"   "5363051").PN. OR ("5430381").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:35
L45	5	("2909190"   "5315255"   "5430381"   "5463379").PN. OR ("7126356").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:35
L46	37	("3604933"   "3627408"   "3745412"   "3868172"   "3945715"   "3965029"   "4053875"   "4106107"   "4286210"   "4307726"   "4465969"   "4492857"   "4507605"   "4580188"   "4595292"   "4649374"   "4671618"   "4673255"   "4688900"   "4714915"   "4782299"   "4785294"   "4792667"   "4818072"   "4825152"   "4838653").PN. OR ("5463379").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:36

# EAST Search History (Interference)

L47	22	("20030006777"   "20050276726"   "20070182419"   "20080083286"   "20100176808"   "2952835"   "3774110"   "3852667"   "4786858"   "4825152"   "5463379"   "5517123"   "5539319"   "5673028"   "6172496"   "6300756"   "6737871"   "6960816"   "7098644"   "7256063"   "7357017"   "7548066").PN. OR ("7924018").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:36
L48	27	("20030038327"   "20040077154"   "5314572"   "5326726"   "5345824"   "5417111"   "5511428"   "5540095"   "5610431"   "5620931"   "5872496"   "6153839"   "6307169"   "6384353"   "6429511"   "6448109"   "6452238"   "6512300"   "6559530"   "6630725"   "6633079"   "6743656"   "6753208").PN. OR ("7357017").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:36
L49	22	("20030006777"   "20050276726"   "20070182419"   "20080083286"   "20100176808"   "2952835"   "3774110"   "3852667"   "4786858"   "4825152"   "5463379"   "5517123"   "5539319"   "5673028"   "6172496"   "6300756"   "6737871"   "6960816"   "7098644"   "7256063"   "7357017"   "7548066").PN. OR ("7915897").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:36
L50	14	("20030020470"   "20030094943"   "4032953"   "4546539"   "4700211"   "4723250"   "4823173"   "5393678"   "5773338"   "5834826"   "6278271").PN. OR ("6960816").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:37
L51	22	("20030006777"   "20050276726"   "20070182419"   "20080083286"   "20100176808"   "2952835"   "3774110"   "3852667"   "4786858"   "4825152"   "5463379"   "5517123"   "5539319"   "5673028"   "6172496"   "6300756"   "6737871"   "6960816"   "7098644"   "7256063"   "7357017"   "7548066").PN. OR ("7924018").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:37
L52	26	("2927269"   "3009099"   "3204183"   "3309690"   "3418572"   "3444465"   "3452346").PN. OR ("3774110").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:38



# EAST Search History (I nterference)

L53	34	("20020049063"   "20030071628"   "20030117943"   "3309690"   "3546587"   "3662260"   "3761803"   "3774108"   "3774110"   "3786468"   "3878459"   "4007418"   "4277745"   "4349783"   "4359926"   "4714915"   "4716371"   "4724393"   "4758792"   "4983954"   "5164673"   "5315232"   "5350999"   "5952820"   "6008660"   "6087826"   "6100806"   "6242911"   "6263190"   "6329924"   "6411103"   "6788215"   "6859141").PN. OR ("7253642").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:38
L54	24	("3826979"   "4016490"   "5166679"   "5337353"   "5491423"   "5729604"   "5802479"   "5973318"   "5986549"   "6025726"   "6051981"   "6275146"   "6348862").PN. OR ("6859141").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:38
L55	174	("3473824"   "3664682"   "3740567"   "3863209"   "3864668"   "3894750"   "3898472"   "3900210"   "3917023"   "3949357"   "3964016"   "4006918"   "4130298"   "4166641"   "4169613"   "4271454"   "4300116"   "4320766"   "4346914"   "4536008"   "4573706"   "4620721"   "4625329"   "4700973"   "4796013"   "4832287"   "4842301"   "4866418"   "4885566"   "4887024"   "4887066"   "4908574"   "4980519"   "4985835"   "5002308"   "5034891"   "5071160"   "5074583"   "5118134"   "5119901"   "5145208"   "5152550"   "5161820"   "5166679"   "5214388"   "5232243"   "5240283"   "5247261"   "5256904"   "5261506"   "5281921"   "5282646"   "5291014"   "5311877"   "5330226"   "5353013"   "5366241"   "5370677"   "5383646"   "5398185"   "5400487"   "5404128"   "5413378"   "5429893"   "5431438"   "5436187"   "5436188"   "5439249"   "5440157"   "5446661"   "5460999"   "5468013"   "5482314"   "5494311"   "5508953"   "5510989"   "5525843"   "5548474"   "5551288").PN. OR ("5802479").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:39

# EAST Search History (Interference)

L56	115	("20040032117"   "20070085697"   "20070132220"   "20070251749"   "20080036252"   "20080042408"   "20080046200"   "20080189053"   "3275975"   "4519652"   "4625320"   "4639872"   "4645233"   "4655505"   "4697656"   "4698571"   "4811226"   "4823619"   "4907153"   "4957286"   "5008946"   "5071160"   "5074583"   "5086652"   "5090493"   "5118134"   "5125686"   "5155685"   "5161820"   "5176424"   "5222399"   "5232243"   "5254924"   "5330226"   "5377108"   "5413378"   "5439249"   "5454591"   "5474327"   "5531472"   "5573269"   "5583771"   "5653462"   "5658050"   "5670853"   "5691693"   "5694320"   "5702123"   "5714695"   "5732375"   "5748473"   "5785347"   "5802479"   "5804887"   "5822707"   "5829782"   "5844486"   "5848802"   "5864295"   "5877677"   "5902010"   "5904219"   "5918696"   "5927427"   "5942695"   "5943295"   "5957491"   "5979585"   "5984349"   "5987370"   "5988676"   "5991676"   "6015163"   "6039344"   "6055473"   "6056079"   "6069325"   "6078854"   "6081757"   "6087598"   "6101436"   "6104100"   "6161891"   "6218632"   "6231076"   "6240352"   "6242701"   "6246936"   "6250671"   "6253134"   "6259167"   "6260879"   "6323443"   "6345839"   "6422087"   "6428039"   "6442504"   "6555766"   "6578871"   "6636792"   "6653577"   "6661341"   "6670560"   "6674024"   "6689962"   "6814370"   "6849808"   "6929324"   "6958451"   "7131513"   "7243945"   "7387183"   "7407029"   "7407209"   "7413048").PN. OR ("7815219").URPN.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:39
L57	6133	345/156.ccls.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:40
L58	12425	345/156-167.ccls.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:40
L59	14695	"178"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:40
L60	89448	"324"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2011/07/15 11:40